

## Our Recommended Instructions for a Professional, Trouble Free Installation

1. Choose desired location for installation.

2. Dig hole 4" deeper than Valve Box height.

3. Level bottom of the hole.

4. Place 2" of gravel at bottom of hole to help with any ground water (important in areas with clay soils).

5. Purchase large 18" x 18" concrete stepping stone from your local garden center.

6. Level stepping stone on gravel base to create clean work area.

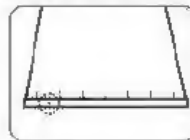
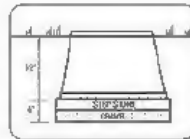
7. Lay-out valve manifold / irrigation system on concrete stepping stone.

8. Assemble system by connecting water supply and sprinkler zones.

9. Once assembly is complete, remove lid from box. Locate the bolt-cap in the center of the lid. Remove bolt cap gently with a screwdriver and loosen bolt. Lid can now be easily removed. Place Valve Box directly over valve manifold. With a marker, make a small mark on the side of the box to show incoming and outgoing pipes.

10. Remove Valve Box from hole. With a hole saw drill between your marks. (Refer to hole saw chart for proper sizing). When drilling, place pilot drill from hole saw directly above the bottom lip of the valve box. This will leave approximately 1/2" of the hole saw not cutting through the box (see example).

The desired shape is a "horseshoe", leaving an open-ended bottom.



11. The hole saw may leave a small radius at the open end of the hole. With a hack saw, cut a vertical line eliminating the radius making a true "Horseshoe" shape with vertical sides (see example).

12. Once all water inlet and outlets have been drilled out of box, reset Valve Box over valve manifold to assure desired fit. If box does not sit firmly on stepping stone, review any areas that may be binding and cut / file any adjustments.

13. If system contains electric valves, make sure wires are pulled and secured before backfilling. A separate hole can be drilled in the side of the box for a "wire pull". Note: Select the size of the drill closest to the size of the outside diameter of the wire. This will assure a professional look and fit.

*Caution: make sure wires are not pinched!*

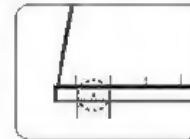
*(See valve instructions for proper wiring)*

14. Once satisfied with installation, replace lid securely on the box.

15. Tighten center bolt to apply seal pressure, then replace bolt cap.

*Placing lid on box will help prevent dirt from entering valve area during backfilling.*

16. Backfill soil to grade.



### HOLE SAW SIZING CHART

1/2" Pipe	=	3/4" Hole Saw
3/4" Pipe	=	1" Hole Saw
1" Pipe	=	1-1/4" Hole Saw
1-1/4" Pipe	=	1-1/2" Hole Saw

### REQUIRED TOOLS

1. Shovel
2. Tape Measure
3. Drill
4. Hole Saw Set
5. Drill Bit Set
6. Hack Saw
7. Gloves and Safety Glasses
8. Screwdriver

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